

CLAIMS:

1. A method for manufacturing an electronic circuit arrangement in a motor vehicle fuel tank by arranging one or more electronic modules on a substrate, and fixating said substrate with respect to a fuel tank wall,
said method being characterized by encapsulating said one or more electronic modules against said fuel by a cap
that connects to said substrate whilst forming an encapsulated space that is separated from any fuel or vapour outside said encapsulated space.
2. A method as claimed in Claim 1, being characterized in
that said cap connects to said substrate by soldering.
3. An electronic circuit arrangement for measuring a fuel level in a motor vehicle fuel tank, comprising one or more electronic modules that are arranged on a substrate, which substrate is suitable for fixating with respect to a fuel tank wall,
said arrangement being characterized by comprising said one or more electronic modules protected against said fuel by an encapsulating cap that connects to said substrate whilst forming an encapsulated space that comprises said one or more electronic modules and that is separated from any fuel or vapour outside said encapsulated space.
4. An electronic circuit arrangement as claimed in Claim 3,
being characterized in that said cap connects to said substrate by soldering.
5. An electronic circuit arrangement as claimed in Claim 3,
being characterized in that said substrate is a ceramic substrate.

6. An electronic circuit arrangement as claimed in Claim 3, being characterized in that said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

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7. A motor vehicle fuel tank comprising an electronic circuit arrangement as claimed in claim 3.

8. A motor vehicle fuel tank as claimed in Claim 7, being
10 characterized in that said substrate comprises one or more electrical through-connections to an outside of said fuel tank.

9. A motor vehicle comprising a fuel tank as claimed in
15 Claim 7.